

a first vertical optical coupler formed in said first layer and optically coupled to a first waveguide in said first layer;

a second vertical optical coupler formed in said second layer and optically coupled to a second waveguide in said layer;

wherein said first optical coupler is positioned adjacent said second vertical optical coupler so that light may be coupled between said first and said second waveguides.

4. The main substrate of Claim 1 further comprising:
at least one additional layer having a third polymeric waveguide formed therein;
an additional vertical optical coupler formed in said at least one additional layer and optically coupled to a waveguide in said at least one additional layer;
wherein said layers are stacked face-to-face and are optically coupled by said vertical optical couplers.

REMARKS

Claims 1-48 are pending. The amendments to claim 1 and 4 are to clarify these claims and do not narrow the scope of these claims in anyway. No new matter is added by way of this amendment. Claims 19-40 have been cancelled without prejudice, because of the election of Group 1 of the restriction requirement. Claims 41-48 remain unchanged.

CONCLUSION

All claims are now in condition for allowance. The Examiner will find accompanying this Response a "**Marked-Up Version**" of the amended claims.

An early notice of allowance is respectfully solicited.

The Examiner is invited to call the undersigned at (650) 470-2932 on any matter that would further the prosecution of this application.